**Product Information**

**PRE-084 (hydrochloride)**

*Item No. 9001329*

**CAS Registry No.:** 75136-54-8  
**Formal Name:** 1-phenyl-2-(4-morpholinyl)ethyl ester-cyclohexane carboxylic acid, monohydrochloride  
**MF:** C_{19}H_{27}NO_{3}•HCl  
**FW:** 353.9  
**Purity:** ≥98%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥5 years

*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

**Description**

Sigma receptors are a structurally unique class of intracellular proteins that can be activated by the following agonists: cocaine, morphine/diacetylmorphine, opipramol, PCP, fluvoxamine, methamphetamine, dextromethorphan, and the herbal antidepressant berberin.\(^1\) PRE-084 is a high affinity, sigma receptor agonist, selective for the \(\sigma_1\) subtype (\(K_i = 2.2\) and \(13,091\) nM for \(\sigma_1\) and \(\sigma_2\) receptors, respectively).\(^2\) It is a potent ligand of the \(\sigma\) receptor (\(IC_{50} = 44\) nM) without appreciable affinity for PCP receptors (\(IC_{50} > 100,000\) nM).\(^2\) PRE-084 has nootropic and antidepressant actions in vivo, as well as antitussive and reinforcing effects.\(^3-6\)

**References**